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Jim Grunig
Iowa State University

Ron Kiewiet
Iowa State University

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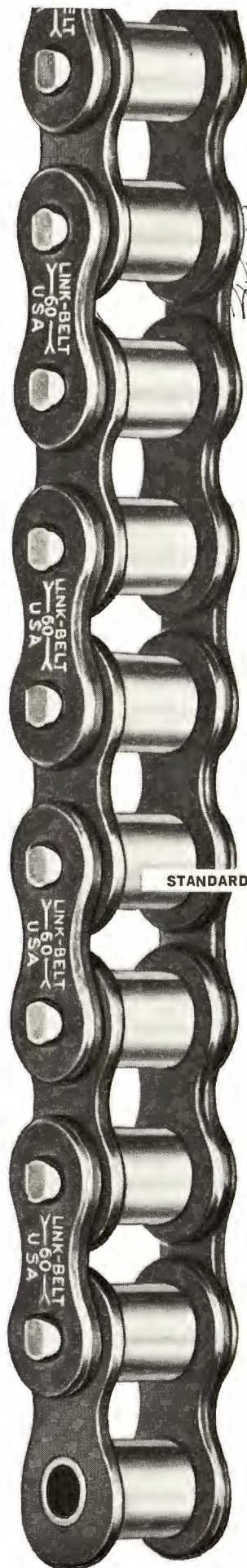
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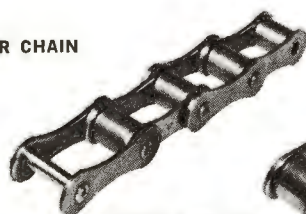
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


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The Ag College Leads the Way

TWO RECENT successful events, sponsored by Agricultural Council, the agricultural banquet, Dec. 6, and the agriculture-industry seminar, Dec. 7 and 8, demonstrated something that has been evident for a long time — the College of Agriculture has the strongest college-wide activities of any college on campus.

The banquet was a sell-out with approximately 800 students, faculty and supporters of agriculture attending. The banquet committee deserves recognition for its very successful work. Gov. Norman Erbe and Iowa Secretary of Agriculture L. D. Liddy attended the banquet, a tribute to the committee and the College of Agriculture.

The agriculture-industry seminar was also well-attended and can easily be judged a success. Students freely asked questions of the panel members, and everyone seemed to gain a lot from the sessions. The event was a first on campus, and from its success, an event we hope will continue in the future.

Autumn Cotillion, a college-wide dance in September, was another successful agricultural activity. The event brought the formal dance back to Iowa State and did much to dispel the feeling that agricultural students are strictly "down on the farm."

No other college at Iowa State can now match these events. Autumn Cotillion is the best, if not the last important college-sponsored dance on campus. If it con-

tinues to be as successful as this year, it will always be one of the top social events of the year.

The all-ag banquet has been a fixture at Iowa State for many years — another event unmatched by the rival colleges. Science Council has expressed interest in sponsoring an all-science banquet this year, a tribute to Agricultural Council and one of its successful activities.

Thinking back to orientation days in September and the college receptions, it is easy to remember that the agriculture reception was so well-attended that students in other colleges trying to find their receptions got lost because of the overflow of agriculture students. With the exception of the College of Home Economics, the agriculture college is the smallest on campus, so this large attendance shows leadership on campus by agricultural students.

These strong activities are benefitting everyone involved. Students attending gain a lot, and the students on committees gain valuable experience. One major activity remains for agriculture students this year — Veishea. In this all-University event, we predict that an agricultural department club will come out on top in the open house competition.

We in agriculture may be blowing our own horn, but we think we deserve it. In fact, we'll offer this challenge to the other colleges. Try to out-do us at Veishea. We don't think you can.

Grunig

IOWA agriculturist

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PHOTO CREDITS

Larry Day, Cover; Ron Kiewiet 6, 12; Dr. Arnold Haugen, 8, 9; Information Service, 10.

OUR COVER

Winter paints a pretty picture on the Iowa State campus, although agriculture students walking across "Little Siberia" may not always appreciate it.

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Table of Contents

<i>How Ag Grads Would Live College Again</i>	4
<i>Cholesterol — Animal Fats or Vegetable Oils</i>	6
<i>Wild Gobblers Return to Iowa</i>	8
<i>Science Expands Forestry Profession</i>	10
<i>Campus March of Agriculture</i>	11
<i>Student Government Means 'Practical Politics'</i>	12

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How Ag Grads Would Live College Again

Forty former students
offer advice for you.

by Ron Kiewiet

TEN YEARS from now when you're an ag grad from Iowa State you'll probably look back on your college days and say, "I would really live college differently if I could go back again."

With this in mind, the Agriculturist queried 40 agricultural graduates of the last 30 years. Their suggestions on what they would do if they could come back to Iowa State may help you eliminate this problem from your future.

"College degrees are pretty common these days," says one grad, "so you better get as good a background as you can." But many warn that you should be careful about what this background contains. They emphasize that because agricultural technology changes so rapidly, much of the practical information you acquire at Iowa State will be obsolete within five or six years. Therefore, many of them recommend elective courses in basic sciences, such as math or chemistry. These are always applicable and enable you to understand those changes.

Cite Two Reasons

Other alumni also advise avoiding over-specialization in your course work. They cite two reasons: (1) Your curriculum prepares you for a vast number of possible careers, despite your beliefs that your training will be for only one job, and (2) An individual is no longer isolated in professional interests, but expected to take an active, intelligent part in civic and national affairs.

This advice is contrary to the old theorem: "Have a definite goal in mind, and choose your elective courses to attain that goal." While these alumni do favor having a goal in mind, they say you'll be making a big mistake if you place too much stress in any one area of study.

Another grad emphasizes this by observing that no matter how extensively you prepare yourself in one area, much of your training will have to be acquired on the job. And he points out, too, that many college gradu-

ates are supplementing their knowledge by attending night school to study in a variety of fields which will help them do an even better job in their area of work.

This same grad says that since you probably don't know exactly what you'll do when you graduate, you'd better aim for "basic training" in all areas of agriculture. If you don't, and you change careers after graduation, you may have to start all over again. He says many graduates who have worked awhile and decided on a career are going on to graduate school to acquire specific training. He adds that many of their employers are paying for this education.

Some Study Short Cuts

Most of us search for short cuts to make studying easier and quicker. These alumni say the greatest short-cut is a set of good study habits — many feel your overall success in college depends on this kind of efficiency. One grad says somewhat pessimistically: "Despite what I recommend as good study habits, your readers will probably disregard them because they've heard them so many times before."

Many of the respondents offered suggestions for what they think should be included in anyone's study habits. If your work load is heavy and it is impossible to get everything done in the time allowed, the answer may be contained in one grad's reply: "Try to speed up both your reading and writing of your assignments. At first, you'll be rapid and inaccurate, but soon you'll be going so fast there will be no time or space in your mind for daydreaming. Then you'll be fast and accurate."

Another alum tells of a memory system which helped him while he was in college. He says he formed a mental picture, usually exaggerated, when trying to memorize names of objects such as bones and muscles.

Still other advice on studying suggests taking accurate and complete sets of notes, spending some time before starting to study in just thinking about what is impor-

tant and what is just background material, learning the skills of listening, analyzing your test papers, and improving your handwriting.

Every alum queried was opposed to studying late into the night. They believe if you have to do this, you're taking on more hours than you should handle and it would be better if you dropped a course. One alum, now a county extension director, says: "For the greatest efficiency in studying, take the advice of an old grad and get a good night's sleep . . . every night."

Study Consistently

The most beneficial study technique, according to these grads, is that of spreading your work load out during the week. This will be more beneficial to you, they say, because you'll get more done and remember more.

"The ability to express oneself well is the key to advancement," says one alumnus. Another says this is one of the most practical skills you can acquire from college, a necessity in almost any field you might enter after graduation.

College activities are another area the alumni regard as important to a college education. A journalism grad, now a managing editor of a publications corporation, says this about activities: "Get into as much as you can . . . pile on the responsibilities, date up a storm. Get used to a hectic pace, and when you graduate, you'll find you just can't let down. Those who can't let down are the ones who keep going up."

However, others feel you should use much judgment in choosing your activities. All emphasize belonging to your departmental club first and then gradually spreading out into all-college activities. "Don't dabble in half a dozen or more activities," says one grad. "Concentrate on two or three and what time you do spend on them, make worthwhile. Then you'll enjoy being a responsible, active member of the organizations." Another alum adds: "Don't forget your church activities."

An employee recruiter for a meat packing firm says: "The student who wasn't active in college activities has a tough time convincing me he is going to turn over a new leaf and be a fireball. . . ."

Part-time Jobs

Many college students have conflicting opinions about holding a part-time job while attending college, and the alums are no different. One says: "Looking back, I'd say, get a job—even if you don't need the money. If you don't work, you'll waste much of your free time anyway. A college job gives you purpose . . . it makes you plan your time and accustoms you to taking orders, both of which you're going to have to learn later in business . . . it gives you insight into what professional life will be like . . . and it offers a lot of satisfaction when you buy a new sport coat or go on an elaborate date with the money you personally earned."

Others who are in favor of working say to get a part-time job that is closely correlated with your field. "How much can you learn by waiting on tables or washing dishes for income? True, you might pick up a few so-

cial tips, and, if you're waiting in a sorority house or girls' dorm, you might pick up more than that!"

Conversely, other alums feel it's better to borrow money for school instead of working during the school year. "One's time is more wisely spent in doing a little extra studying in some area of special interest than in wiping dishes or waiting tables."

Culture was also discussed by some of the alumni. Most of them say every student should attend some of the more important cultural events on campus. "If you don't attend them now," says one grad, "you'll later feel cheated in one area of your education."

These are some of the comments grads have given. They're through making the college decisions you still have time to think about. Course work, study habits, activities and part-time jobs are an important part of your college education. Taking their advice now may save you from rerouting your course in the future.



A part-time job in college was a subject of disagreement among Iowa State grads queried by the *Agriculturist*. Some felt such work helped them adjust to later jobs, while others thought you would do better using the time to study. Most agreed, however, that you should get a job close to your field. Waiting tables, for instance, may not do too much for you in your area when you graduate.

CHOLESTEROL—

Poultry researcher Loren Nichols finds that both vegetable oils and animal fats can have a cholesterol effect and cause hardening of the arteries.

by Jim Grunig



Loren Nichols, poultry science researcher at Iowa State, tests a male chicken for blood pressure. A cuff around the bird's leg is attached to an electron microphone which sends an electrical signal to the oscilloscope in the background. The oscilloscope shows blood pressure. By testing 240 chickens in this manner, Nichols found that both animal fats and vegetable oils can have a cholesterol effect and contribute to hardening of the arteries.

JOE CALMLY waited his turn to have his blood pressure reading taken. A number of his friends were also being tested today—for an experiment or something. There was a rumor that some of the patients might have hardened arteries—from cholesterol or something like that.

But Joe really wasn't too worried. Hadn't vegetable oils been substituted for animal fats in his diet? Only animal fats were supposed to cause hardening of the arteries. The American Medical Association had even said animal fats couldn't definitely be linked to hardening of the arteries. "Why worry," thought Joe.

Soon it was Joe's turn, and as the cuff was put around his leg, he jumped a little from nervousness. Joe should have become a lot more excited when he saw that his blood pressure was higher than normal. But since Joe was a male chicken, he really didn't know what was going on.

Studied Chickens

Joe was one of 240 roosters tested for high blood pressure by poultry science graduate student Loren Nichols. Nichols' results show that vegetable oils can have just as bad an effect as animal fats in causing hardening of the arteries. Sometimes he even found a worse effect.

Most persons believe arteriosclerosis can be avoided if they use vegetable oils; corn oil, oleomargarine, etc; in their diet rather than animal fats such as lard, butter, and fatty meats.

Why? All because of a controversial fatty alcohol named cholesterol. Animal fats contain it, as do nerve tissue, blood and bile. Cholesterol is really harmless except in a few cases where it combines with calcium in the blood stream. A deposit forms in

Animal Fats or Vegetable Oils?

the arteries, and they become smaller and more rigid than normal. These hardened arteries cause the heart to work harder than normal, and high blood pressure results.

Nichols, in doing work on his Ph.D., wanted to find out if there was any cholesterol difference between animal fats and vegetable oils. To do so, he performed four major tests, using 60 male chickens each time. Birds were fed different diets. Some dined on vegetable oils in the form of soybean oil or crude corn oil, some on animal fats (white grease or lard) and some on pure crystalline cholesterol.

Blood pressure increases were similar for the vegetable and animal fats. Some birds fed the oils even had increases greater than birds fed the crystalline cholesterol. Nichols explanation for these results is that he believes vegetable oils in the body are broken down and then rebuilt into cholesterol. Thus a person could not protect himself from hardening of the arteries merely by using vegetable oils instead of animal fats in his diet.

Few Bothered

However, everyone is not subject to cholesterol. Nichols said only a few chickens or people are bothered by it. Some people have abnormal metabolism and can't handle large amounts of cholesterol. The vast majority of the population has normal metabolism, and excess cholesterol should not be one of their worries. Those that are troubled by cholesterol should watch their intake of both animal and vegetable fats—they both could be the villain.

The results of Nichols' work are good news for pork, milk and egg producers. Their products are high in animal fat and thus cholesterol.

These producers weren't too happy about the damage done to their products by the campaign against animal fats. Needless to say, there has been a lot of controversy over the subject of cholesterol.

Are People Concerned?

Nichols' work seems to shed new light on the problem, but then the question is asked—what do chickens have to do with people? The researcher answers that nearly all human nutrition research is done on chickens, guinea pigs and rats. "You just can't run this type of experiment on humans when their health is at stake," he said. Where cholesterol is concerned, the chicken's digestive system is also very similar to a human's. A chicken's blood pressure is only slightly higher than man's.

Even the methods for testing a chicken's blood pressure are similar to those used for a human. Where an inflated cuff is put around a human's arm, Nichols put a similar cuff around the bird's leg. The sounds of the heart beat are picked up by a sensitive electron microphone attached to the leg cuff. These sounds travel via an electric current to an oscilloscope which shows blood pressure readings through rises and falls in light flashes on its screen. Nichols used a machine very similar to an electrocardiogram which is used to determine what is going on in the human heart. His machine was designed to test blood pressure of babies but later was adapted for animal use.

Nichols' work is probably a first in the research ranks. He says he knows of no one else who has actually measured blood pressure of chickens in a cholesterol experiment. Several researchers have found cholesterol in

the blood serum after vegetable oils were fed. However, they didn't go further, as Nichols did, and find out if this cholesterol caused high blood pressure.

Nichols began his cholesterol study in 1960 with research on a drug supplement which was supposed to lower the cholesterol level in blood serum. However, serious side effects developed, and the drug wasn't successful.

He became more interested in such a study after reading a research paper on a cholesterol experiment with rabbits. This researcher put a clip on an artery near the kidneys to increase blood pressure. The high blood pressure of the rabbits also caused them to have a high cholesterol content in the blood serum. These rabbits and Nichols' chickens showed that high cholesterol content and high blood pressure each have an effect on the other.

Side Result

In a side result of his experiment, Nichols found that large egg yolks have a lower cholesterol content per gram than smaller yolks. This result is contrary to other similar experimental results, but Nichols said the strain of the chickens could cause a difference.

Nichols' finding that vegetable oils and animal fats both can have the same cholesterol effect won't make persons suffering from hardening of the arteries jump for joy. However, Joe the rooster didn't give his life in vain. His arteries and circulatory system may help pave the way for other researchers. They now know that all kinds of fat have the same effect, so they can attack the problem from both angles.



Two former Iowa State graduate students who received Masters' degrees at the Iowa State Wildlife Unit net pheasants along an Iowa roadside for study at the unit. Richard Andrews is driving the truck while Paul Fore throws the net over an unsuspecting bird in the grass.

Iowa State Wildlife Unit Helps

Wild Gobblers Return to Iowa

by Bill Frieberg

THE GOBBLING of wild turkeys may soon become one of the sounds of Spring that some Iowans may anticipate each year.

Residents of the Yellow River Forest area in the northeastern part of the state have already been treated to dawn serenades by the big birds. Through a cooperative effort between the State Conservation Commission and the Iowa Cooperative Wildlife Research Unit at Iowa State, 39 wild turkeys were imported from Texas, and stocked in this area in Nov., 1960, and March, 1961.

Produced 60 Poults

According to Dr. Arnold Haugen, head of the research unit, the turkeys produced about 60 poults last sum-

mer. These may become permanent inhabitants of the state, says Haugen, "if people give them a chance."

A recent examination of one of the birds killed by an animal showed shotgun pellets in the turkey. This isn't giving them a chance, Haugen says.

Cooperates With Agencies

This is an example of the work being done at the wildlife research unit. It is operated in cooperation with the State Conservation Commission, the U.S. Fish and Wildlife Service, and the Wildlife Management Institute. The unit conducts research, educates students at the graduate level and carries on Extension work.

One important finding of the Iowa unit has been the

development of dependable census methods to determine wildlife populations. This has helped the Conservation Commission establish hunting laws, since the laws are based on current numbers of animals.

To count pheasants, a census-taker must be out at dawn when the cocks are crowing. He counts calls for two minutes at one or two-mile intervals for several miles. An average number of counts is found for the stops. This gives an index for the number of birds in the area from which the total population can be estimated. Counting wood ducks is also an early-morning adventure. The ducks roost on the Mississippi River at night and then fly up small creeks during the early morning.

Last spring, Dale Hein, FWM. 6, counted birds at day-break as they flew up the creeks. Since the ducks were paired off, male and female, he got an index to the population that was breeding this year.

Iowa Deer are Productive

Research at the Iowa unit has also shown that Iowa deer are more productive than those in other states. Haugen says an Iowa doe becomes pregnant when she is about six months old, and gives birth to a single fawn at 1 year of age. After that she will nearly always produce twins. They are productive because they "grow up on the best soil in the world." It provides excellent food, keeping the deer well nourished and in good shape.

Haugen says this productivity study helps the Conservation Commission establish deer hunting laws with an eye toward the future.

Work With Pheasants

Considerable work is also being done with pheasants at the unit. Some of it is directed toward starting populations in southern Iowa. Ames is on a dividing line, Haugen states. Pheasants are plentiful to the north and scarce to the south.

Researchers don't know why pheasants won't thrive

in southern Iowa. However, the unit is trying to show that varying soil conditions such as chemical content, fertility and minor elements have an effect.

Paul Vohs, who is working toward a Ph.D. degree, is trying to identify strains of pheasants through blood types. Since strains cannot be adequately identified now, Haugen believes this may be a method for selecting strains that can adapt to southern Iowa.

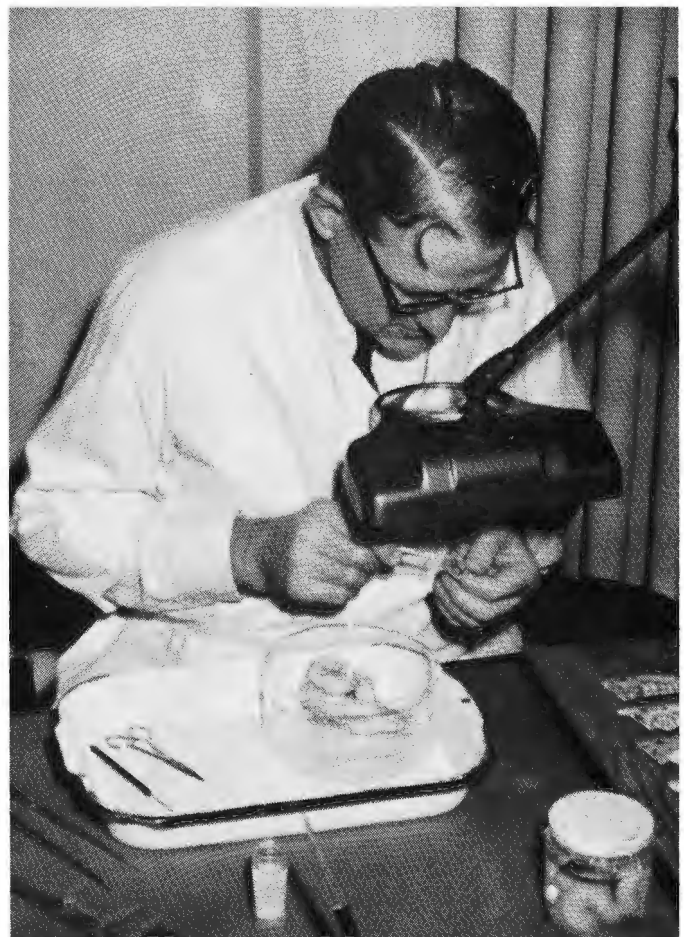
Nests Destroyed by Man

Another problem connected with pheasants is the large number of nests being destroyed by man. Haugen says about 80 percent of the nests are destroyed each year, most of them by mowers. He believes this toll could be greatly reduced if highways were not mowed until after the Fourth of July. Then the eggs will have hatched and the highway ditches can serve as "bait" nesting cover to attract pheasants out of the hay fields where the mowers take a huge toll.

Haugen says other animals the unit has studied include quail, dove, fox, muskrat, mink, raccoon and skunk. He says many basic biological facts have been determined for these and other animals. These Iowa State findings are being used for research and conservation work throughout the world.



This wild turkey was one of the original birds released in Iowa by the wildlife unit. The birds were imported from Texas and released in the Yellow River Forest area in northeastern Iowa. Stocking of wild turkeys is just one example of the work done at the unit.



Dr. Arnold Haugen, head of the wildlife unit, examines a deer uterus as part of his work at Iowa State. Research on deer has shown that they are more productive in Iowa than in other states. The reason: "They grow up on the best soil in the world."

Science Expands Forestry Profession

by Chuck Collins



Graduate work in forestry usually leads to positions in research and teaching, in technical fields such as forest genetics, wood science, forest economics and forest soils. Dr. Harold McNabb (left), assistant professor of forest pathology at Iowa State, worked with Wallace Eslyn, a graduate assistant in forest pathology a few years ago, in using a portable x-ray unit to "look inside" Iowa trees. They then determined extent and progress of decay.

VISIONS of the forester as a lone man stationed in an observation tower on a desolate wooded peak have caused many youngsters' ambitions to be laid aside as childhood dreams.

Actually this envisioned lone man is a fire lookout, not a forester. However, this does point out that few people have a true conception of the type of work included in the forestry profession.

Wood Not Outdated

A recent survey by American Forestry Products Industries, Inc. revealed that many people believe wood is an outmoded material and forests are vanishing. This is far from true as the forestry profession is continually expanding. Modern scientific production methods and uses of wood have expanded the industry. Now the opportunities for placement in forestry exceed the number being graduated from forestry schools.

More than a fourth of the land area of the United States is still covered with forests. They include 182 million acres of publicly-owned

forests and 345 million acres of private woodlands. A number of trained foresters are needed to manage this vast expanse of forests.

Accept Federal Jobs

Most of Iowa State's forestry graduates accept jobs with the United States Forest Service or other federal and state agencies. Here they can advance into positions such as district ranger for the Forest Service. The district ranger may spend part of his time in administrative duties such as issuing grazing permits to sheep growers or issuing use permits to persons wishing to build cabins in the woods. He also directs his subordinates, inspects communications and otherwise supervises his district.

Dr. Carl H. Stoltenburg, head of the forestry department at Iowa State, says job prospects in industry will improve in the next few years. Private industry presently employs about half of the graduates of Iowa State's forestry department. However, industrial firms usually prefer men who have had some practical experience after graduation. Industry wants foresters to harvest timber crops, improve timber lands, create better products, and to insure continuous supplies of raw materials through

proper management of forested areas.

Graduate work in forestry may lead to positions in research or teaching. According to Dr. Stoltenburg, there are outstanding opportunities for research and teaching in such specialized fields as forest genetics, wood science, forest economics and forest soils.

Iowa State graduates presently hold many key positions in the field of forestry. Included are presidents and vice presidents of large paper and forest product companies as well as heads of three state forestry schools.

Need More Foresters

With the development of new methods for more effective use of our forest products and more efficient management of timber lands there is an expanding need for more trained foresters. Prospects for the future in forestry look bright especially when we consider that more than half of the land capable of producing commercial timber is in the hands of untrained persons. As these people discover that trained foresters will be able to make their land more profitable and productive there will be even more openings for college graduates in forestry.

Next month the "Ag" will discuss opportunities in the beef industry.

The Campus March of Agriculture

Foresters Have Unique Summer Experience

THE BEST way to get out of a canyon is to follow the trail out, advises Bob Musselman, a forestry junior who spent nearly two days braving the elements to locate a sample plot as a part of his timber inventory and wood density survey work last summer. For him and five other Iowa State foresters, hours from sun-up to midnight were common while working for the Pacific Northwest Forest and Range Experiment Station in Portland, Ore.

Also working with Musselman on the project were Don Meyer, Don Lindsay, Bill Spinner, Dennis Murphy, and Dennis Adams. The program, being carried on by the U.S. Forest Service, involves a detailed assessment of the valuable forest resources of Washington and Oregon.

Located Plots

The students worked locating sample plots and taking data on height, diameter, growth, and bark thickness to be used in volume estimates. They employed the Bitterlich method of variable plot cruising, the latest concept in sampling for timber estimates. It should be in widespread use by the time they graduate. They used topographic maps and aerial photographs to locate the plots. Many of the plots were five or ten miles from the nearest road.

Improvement in the quality of forest products is the objective of the wood density survey that is carried on in conjunction with the volume inventory. The students bored into different tree species to obtain wood core samples used in studying plots

representative of different conditions of forest growth. The cores are sent to the Forest Products Laboratory at Madison, Wis., where they are analyzed and tested for such properties as density and strength. These properties determine the quality of plywood, beams, and many other forest-derived products. The wood density survey will give a body of information which will help forest managers grow quality timber intended for specific uses.

Grew in Ability

The long hours and level of precision required in the work helped each man to grow in self-confidence and technical ability. "The experience will apply to any type of job, related to forestry or otherwise," Meyer said.

A station official wrote the forestry department and described the crew as the best he had ever worked with. According to C. D. Mattson, who places foresters in summer jobs, there will probably be more Iowa State men needed to continue the survey next summer.

Dave Young

Winter Farm Op Enrollment Rises

THE FARM operations department is expecting the highest enrollment this winter in the special winter quarter farm operations course.

Dr. Roger Mitchell, head of farm operations, says he expects nearly 140 students in the program this quarter.

Last year, 126 students enrolled. The course has averaged about 50 students each year since it was first offered in 1954.

It is operated as a short course for

students who can spend only winter quarter in college. Dr. Mitchell says the main purpose of the course is not to teach men how to do it, but why to do it.

Students in the special farm op course carry 18 credits in agronomy, animal science and economics. They receive certificates certifying completion of the course if they have a C average at the end of the quarter. If the student decides to further his college career, these 18 credits may be counted toward a college degree.

Mitchell says the program definitely fills a need. It gives a man going to the farm an opportunity to find out what information is available from Iowa State.

'Ag' Wins Awards At ACMA Meeting

THE *Iowa Agriculturist* co-editors, Ron Kiewiet and Jim Grunig attended the Agricultural College Magazines, Associated (ACMA) convention in Chicago Nov. 22-24 and brought home many of the top honors.

Kiewiet was elected president of the group, and Grunig was appointed administrative assistant to be in charge of next year's magazine contest. The May issue of the *Agriculturist* won second prize in this year's cover contest. The cover featured a picture of four Hereford calves with the tie-in, "What's Their Steak in Dual Grading." The Ag also won third place for popular presentation of technical material. The general excellence award won by the Ag last year is yet to be announced.

ACMA is composed of 11 member magazines ranging from coast to coast.

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Des Moines

To Stan Nollen

Student Government Means 'Practical Politics'

by Bob Vajgrt and Ron Kiewiet

NOT MANY agriculture students have had such a sincere interest in student government as has Stan Nollen, this month's outstanding senior.

The first contact Stan had with student government was when he was elected MRA activities chairman during winter quarter of 1961. During the summer of that year he served as internal vice-president of the MRA. Last winter, Stan ran for external vice-president but lost by only a few votes. He then ran for senator-at-large in Government of the Student Body, won and is now serving the University in that capacity.

Stan considers student government as "a laboratory for life." He says it gives information and experience you can't get from a government course. "It teaches you practical politics: the difference between legislative and administrative differences, what makes the best poster and how to effectively use your campaign money."

Names Government Problems

However, the agronomy senior also sees some real problems with student government. He names three: (1) The only real power is one of recommendation. (2) There is a lack of communication between the student body and their GSB representatives. (3) There is a too rapid turnover of the representatives to let them become fully acquainted with the problems and accomplish their goals. Stan believes student government will have to continue to work on significant issues if it is to retain the respect of the student body.

Why does Stan take such a sincere interest in government on the Iowa State campus? "I have some strong feelings and opinions about our present state and national government. I think it is only logical that I try to do something about them. Student government is the best way I know how."

However, Stan is not looking for a political career. His ultimate goal is a management or executive position in business. He believes his experience in government now will be invaluable to him in the future.

Although student government has been his primary activity interest, he has participated in numerous other activities and organizations. These have included festi-



Senator-at-large Stan Nollen spends part of his spare time every day checking recently proposed bills at the GSB secretariat office on the first floor of the Memorial Union.

val chorus and singers, treasurer of Tomahawk, independent sophomore honorary; King of the Order of Chessman in the MRA, MRA Toastmasters Club, Agronomy Club and Alpha Zeta. He is presently serving as the student member of the University safety committee. Last year, he was a member of the student-faculty committee on student-faculty relations. Despite these activities, Stan has a 3.4 all-college grade point.

Enrolled in Chemistry

Stan enrolled in Chemistry when he came to Iowa State. In spring quarter of his freshman year, he found it would be impossible to continue the required courses, maintain that schedule and participate in the activities he wanted. He says he wanted a technical education with a practical application and found agronomy included many technical courses, so he changed curriculums.

Stan has some definite ideas about an agricultural education. He believes it isn't enough to learn how to increase production of an agricultural product. He calls this training. He believes a true "education" includes knowing why various production methods result in a certain product.

Like most college students, Stan doesn't have time to read many books, but he does read a variety of selected periodicals. These include U.S. News and World Report, Newsweek, National Review, The Nation and Harpers. He says reading magazines is a broadening experience. During quarter breaks and vacations, he usually tries to read several books.

Stan helped finance his education as a part-time soils teaching lab assistant during the school year. The summer following his sophomore year, he worked full-time with an agronomy graduate student on a research project. These earnings along with money saved from FFA projects in high school plus financial help from his parents and two scholarships have paid for his education. During his freshman year, he was awarded a \$100 merit scholarship, and he now holds a \$600 Elli Lilly advanced curriculum scholarship.

Earns Money Tutoring

He also earns extra cash working as a tutor in a special service offered by the agronomy department. He says this takes only a few hours a week, and he earns \$2 per hour of tutoring.

Last summer, Stan participated in the ag travel course. He says the most impressive part of the trip was realizing that agriculture is big business. He says he wondered if Iowa is failing in some way since other states with less agricultural potential are gaining more of the agricultural industries and business.

What part of his education would he do differently if given a second chance? He says he would date more. Confidently, he says it's been his own fault if he hasn't dated enough during the last three years. It's just that he hasn't had time. He believes Iowa State coeds meet the seemingly high standards many Iowa State men have set for them, despite what many believe.

Merry Christmas and Happy New Year

Events at the Union For Your New Year Pleasure

Thursdays:

Books and Coffee

Fridays:

News Forum

January 11:

*First Varieties
Performance*

January 12:

First Reel Review

Memorial Union

here's a man going
places...because he's
dressed for the part!



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Laugh A While

She (gushingly): "Will you love me when I am old?"

He: "Love you? I shall idolize you. I shall worship the ground under your feet. I shall—er—ah, you're not going to look like your mother, are you?"

* * *

"How about a date?"

"I should say not!"

"Oh, I don't mean now. Some nasty wet winter afternoon when there's nobody else in town."

* * *

Patient: "I'm all out of sorts; the doctor said the only way to cure my rheumatism is to stay away from dampness."

Friend: "What's so tough about that?"

Patient: "You don't know how silly it makes me feel to sit in an empty bathtub and go" over myself with a vacuum cleaner.

* * *

Coed: "Stop that man, officer. He tried to kiss me."

Campus Cop: "Hush now, there'll be another one along momentarily."

* * *

Greek: "What lovely hair you have. What deep tender eyes . . . where did you get those beautiful eyes?"

Bored Coed: "They came with the head."

* * *

Father: "Son, I'm going to tell you a story."

Four-year Old: "OK, but keep it clean. The old lady may be listening."

* * *

Mr. Observer paused before a painting which depicted a ravishing young nymph clad only by a few strategically located leaves. Mr. Observer seemed as if he wasn't going to move for sometime.

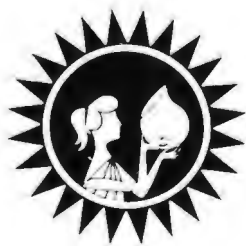
"Come on George," urged his wife, pulling on his coat sleeve. "What are you waiting for, Christmas?"

"No, just autumn," sighed Mr. Observer.

This Is How We Advertise SOUR CREAM

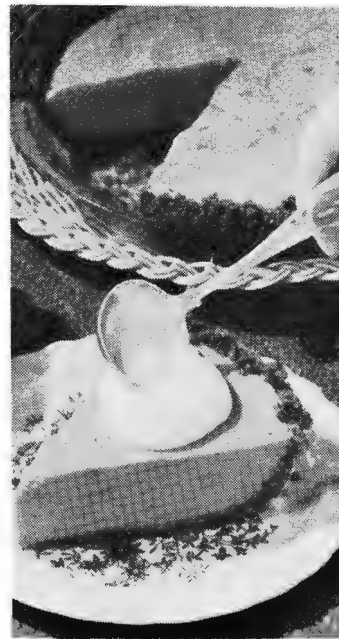
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FARM LEADERSHIP

Is Found in Many Places

Kenneth Nielsen, ISU, '46

You will find a significant bit of it in Iowa among those graduates of Iowa State University who work for and advise with several hundred independent, locally-owned farmer cooperatives. As employees of Consumers Cooperative Association, these men help farmers with their off-the-farm problems of buying supplies . . . petroleum products, fertilizer, feed and so on. CCA, as their organization is called, is a farmer-owned industrial complex which manufactures and distributes just about every major item that a typical farmer uses in his day-to-day production activities.

Heading the Iowa staff of Consumers Cooperative Association as district manager is Kenneth Nielsen, pictured above. A 1946 graduate of Iowa State, he has the assistance of other Iowa State men in the performance of his duties. On the payroll of CCA and an affiliated organization, Farmbest, Inc., of Denison, are the following who studied at ISU:

Robert Casey, *Ida Grove*
Ed Clausen, *Denison*
O. W. Cozzens, *Zearing*
Robert Faint, *Pocahontas*
Dean Fullerton, *Marathon*
Park Hammer, *Lake City*
Russ Jones, *Oskaloosa*

Jim Kleen, *Renwick*
George Lancaster, *Cedar Rapids*
Dale Nook, *Denison*
Terry Reaman, *Denison*
Ernie Sansgaard, *Kanawha*
Raymond Shubat, *Denison*
Darrell Sieve, *Manning*

John Spurgel, *Sibley*
Chris Steinbach, *Storm Lake*
Earl Surratt, *Iowa Falls*
Bill Terpstra, *Grinnell*
Vern Thorson, *Ankeny*
Gilbert Withers, *Denison*

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